

Work with Tribal Nations and Lessons Learned at SURF

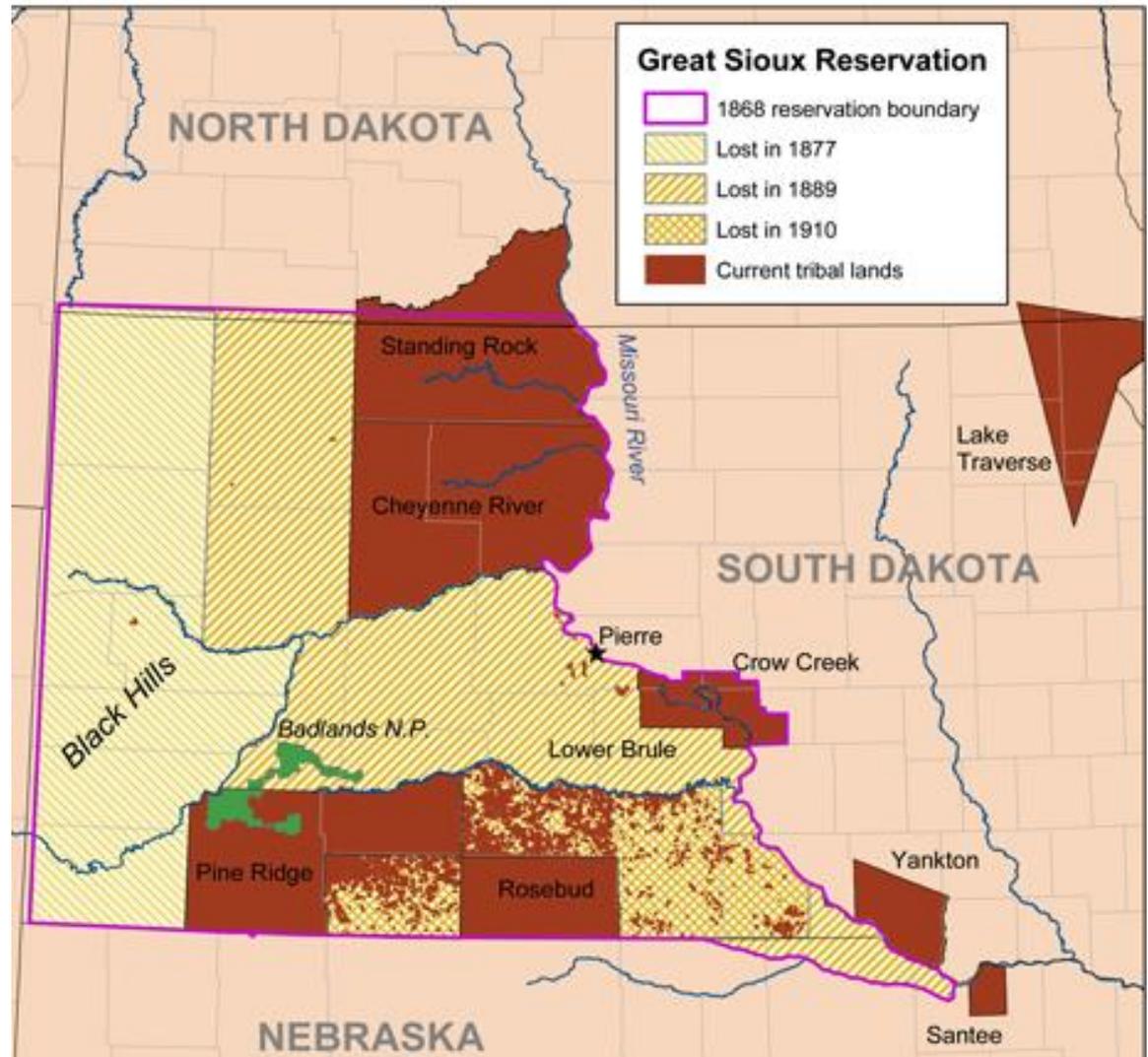


Overview

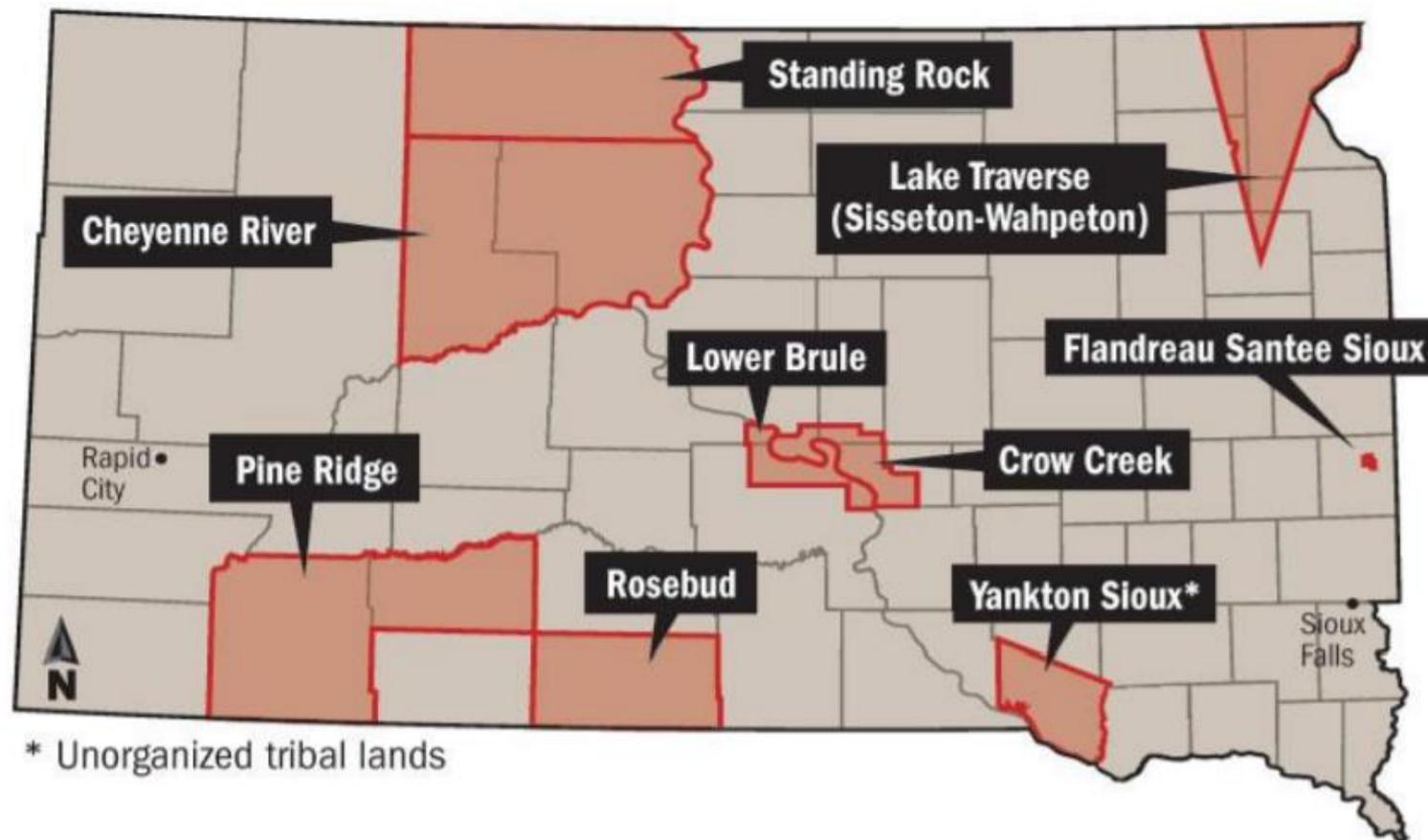
- History of Tribal Lands
- Cultural Awareness at SURF
- Education and Outreach with Tribal Groups
- Sacred Circle Garden (Cangleska Wakan)
- Lessons Learned/Best Practices

Tribal Land Loss

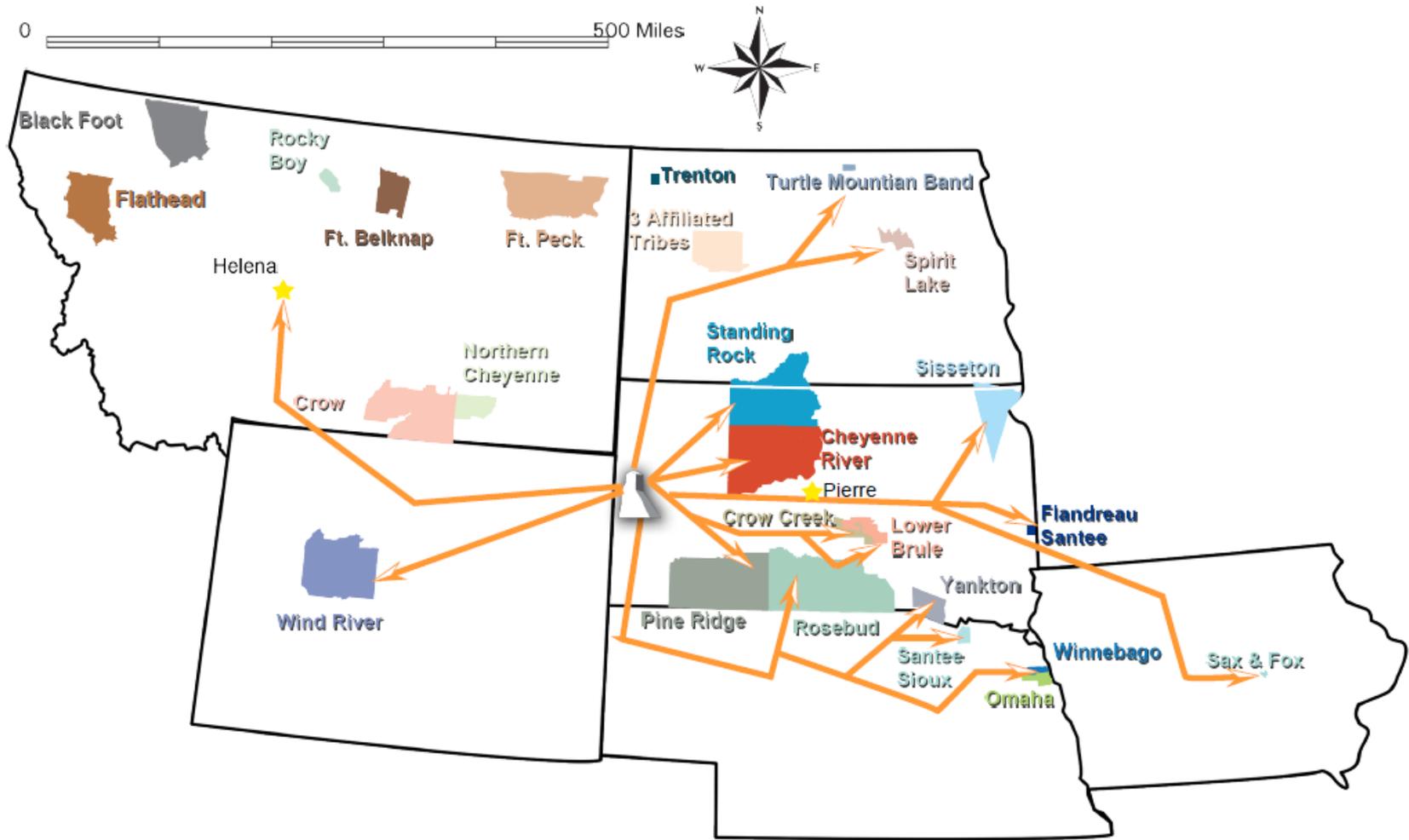
- 1868: Fort Laramie Treaty
- 1877: Act of 1877
- 1889: Act of 1889
- Current efforts in place to purchase land



Tribal Nations within South Dakota



Tribal Outreach



E&O Areas of Effort

1. Field Trips
2. School Presentations
3. Curriculum Units
4. Teacher Professional Development & Support

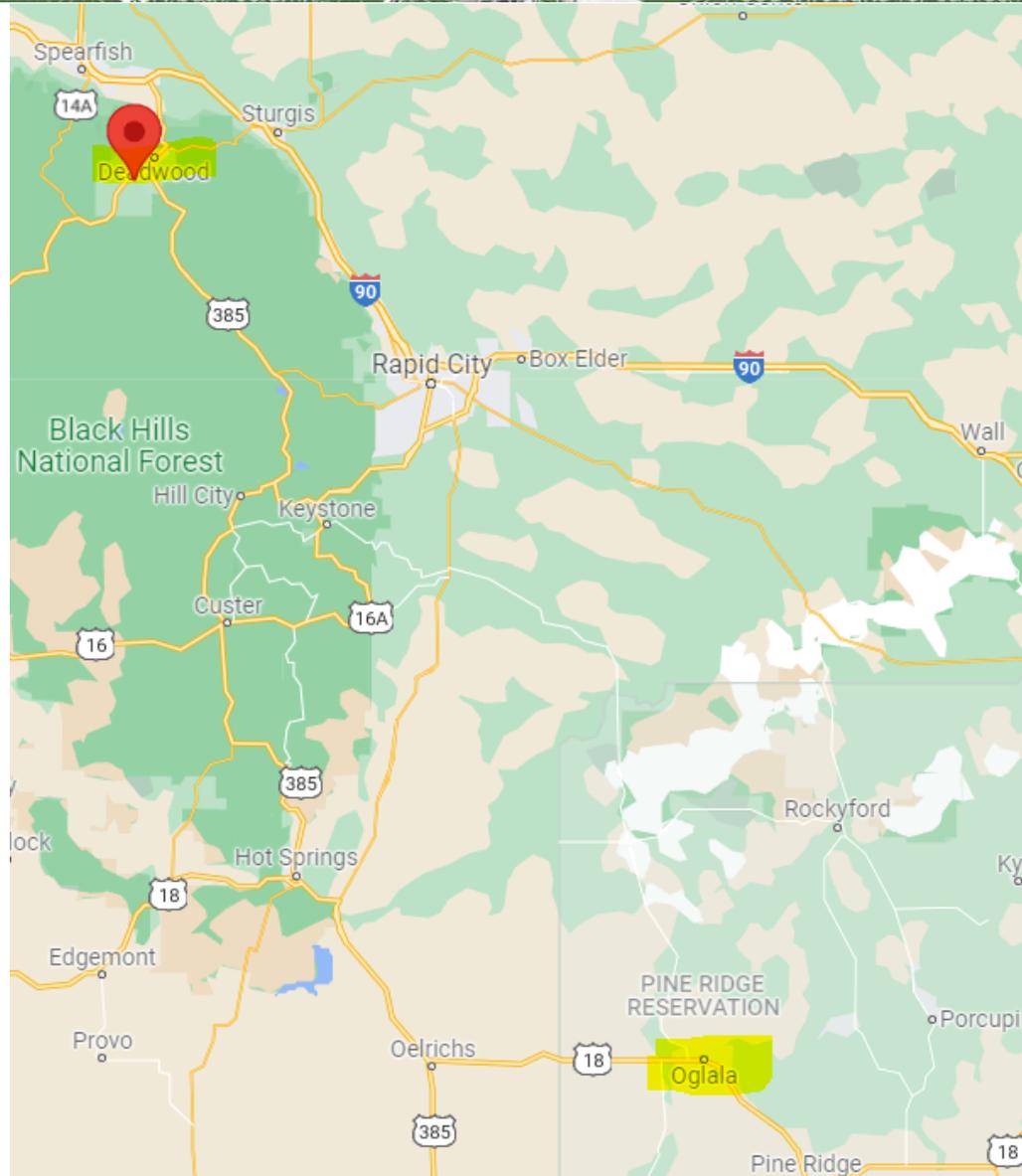


Education and Outreach

- Presentations in Tribal Schools:
 - 2020-2021: 10.9% of total student outreach
 - 2019-2020: 13.9% of total student outreach
 - Prior to the pandemic, Native student outreach hovered around 20% of total students reached
 - Solar Eclipse event with Pine Ridge High School in Alliance, NE
 - Sci Girls Program



Isna Wica Owayawa (Loneman School)



Isna Wica Owayawa



Isna Wica Owayawa

- Placed-based Learning Curriculum
 - Students requested environmental focus
 - Water: Where Does It Go? Adapted to Mni Wiconi
 - Curriculum includes:
 - Testing of the water in the White River
 - Impact of underground research on the regional water supply
 - Role of the wastewater treatment facility at SURF
 - Impacts of pesticides used in farms in the northern U.S.



Water: Where Does It Go? Next Steps:

- Learning to incorporate more cultural practices around water
- Working alongside Ida Clark (former SURF intern and Isna Wica Owayawa student) on:
 - Taking students through a tour of the wastewater treatment facility
 - Sharing her desire to improve water quality and access in Pine Ridge



Additional Education Initiatives



Additional Education Initiatives

Chamberlain High School

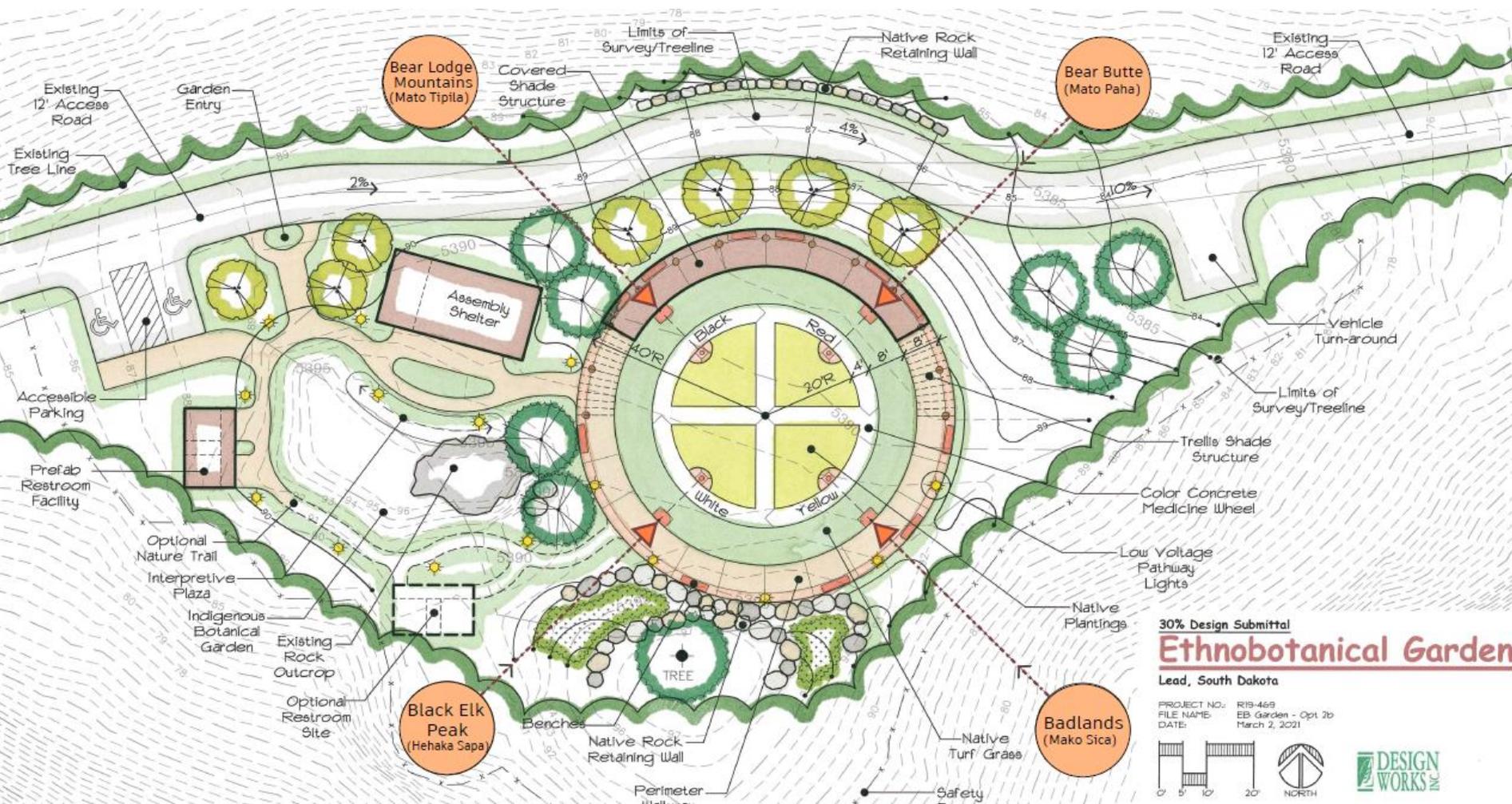
- 50%+ Native population
- High school earth science class
- Majority of students have not visited a museum
- SURF Foundation and Education and Outreach are working to raise funds to transport students to SURF

Lakota Technical High School

- New technical school located in Pine Ridge, SD
- Working to forward 3D printing and soldering opportunities with a company based in Rapid City



Cangleska Wakan (Sacred Circle) Garden



30% Design Submittal
Ethnobotanical Garden
 Lead, South Dakota

PROJECT NO: R19-469
 FILE NAME: EB Garden - Opt 7b
 DATE: March 2, 2021

0' 5' 10' 20'
 NORTH

DESIGN WORKS



Cangleska Wakan

PROTECT. RESPECT. UNDERSTAND.



- Cangleska Wakan translates from Lakota “Sacred Circle,” and is a reminder that in the universe is connected.
- In many Native cultures, a Sacred Circle represents the continued process of growth and development that connects everything in the world.
- The garden will serve as an area to encourage us all to protect, respect and understand our environment and shared history.

Cangleska Wakan

- Fundraising Video
 - In the first recording, “Cangleska Wakan” was mispronounced, as determined by members of the Cultural Advisory Committee.
 - We acknowledged the error, and re-recorded the audio portions of the video.
- Webpage
 - A resident in the region highlighted one of the photos may be considered inappropriate by the Native community.
 - Again, we acknowledged the error and removed the image and replaced it with an acceptable one.
- Design Iterations
 - Several discussions involved considerations for placement and predominance of the Sacred Circle within the garden.
 - Recommendations were made to the designer to better accommodate Native design/cultural needs.

Lessons Learned/Recommendations

- Persistence is key.
- Be humble, willing to learn, and willing to change.



Questions?